

Koch, Kristine

From: Allen, Elizabeth
Sent: Friday, November 14, 2014 1:51 PM
To: Suzanne Replinger
Cc: John Toll; Koch, Kristine; James McKenna; Jennifer Woronets
Subject: RE: dioxin/furan metabolic rates for the FWM

Thanks Suzanne! This also shows my initial guess that the Km values for the penta dioxin and furan would be the same was incorrect. I think at some point we'll need to be able to cite references for all these values, but that isn't time-critical.

Elizabeth

From: Suzanne Replinger [mailto:SuzanneR@windwardenv.com]
Sent: Friday, November 14, 2014 1:45 PM
To: Allen, Elizabeth
Cc: John Toll
Subject: dioxin/furan metabolic rates for the FWM

Hi Elizabeth –

To follow up from our conversation a bit ago, invertebrate KMs were assumed to be 0 in the August 2014 work we did modeling the dioxin/furan congeners. The table below shows the invertebrate and fish KM values. Note that 2,3,4,7,8-PentaCDF was calibrated as part of the 2009 report, so we had a non-zero value for invertebrates for that chemical. The only other wrinkle was that based on the available literature, we selected a different KM for carp for 2378-TCDD (as shown in the table below.

Dioxin/furan	Invertebrate K _M	Fish K _M
1,2,3,4,7,8-HexaCDF	0	0.02
1,2,3,6,7,8-HexaCDD	0	0.08
1,2,3,7,8-PentaCDD	0	0.01
2,3,4,7,8-PentaCDF	0.095	0.024
2,3,7,8-TetraCDF	0	0.1
2,3,7,8-TetraCDD	0	0.007 (Carp = 0.0016)

Let us know if you have any questions.
Thanks

Suzanne

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